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THINGS
AQUATIC
IN THE HOME



U. S. DEPARTMENT OF AGRICULTURE
OFFICIAL BUSINESS

TERRARIUM PLANTS
IVIES
AQUARIUMS

PENALTY FOR PRIVATE USE TO AVOID
PAYMENT OF POSTAGE, \$300

GPO

LIBRARY

U. S. Department of Agriculture

Washington 25, D.C.

LOVELAND
★ GOLDENFISH FARM & AQUARIUM NURSERIES
LOVELAND, OHIO

Return Postage Guaranteed



The 30 gallon Stainless Steel Aquarium pictured above was set up eight months ago for experimental purposes under home conditions. The gravel guards are specially constructed to give the Terrace effect to better display the plants. All plants are of the original planting and have more than tripled their size. Since the Aquarium sits directly in front of a window, a "Curtain" was placed in the back to reduce the intensity of the Sunlight and Supplemented by Artificial light in the overhead reflector. A Marco "A"

pump supplies Oxygen through the diver and operates the outside filter. A 75 watt heater and thermostat have automatically maintained the water at 74° F. all winter. At the time this picture was taken 72 fish were living happily. The half hour spent each week performing the necessary cleaning operations, and the initial cost are lost by comparison to the many hours of pleasure and enjoyment every day of the year—Now and for years to come.

These plants are pictured above:

Numbered plants in drawing correspond to picture.

1. 3 Bunches Hygrofila (each corner)
2. 8 Cryptocoryne Willisii
3. 8 Cryptocoryne Griffithii
4. 24 Sagittaria Microfilia
5. 2 Dwarf Lilies
6. 1 Southern Spatterdock
7. 1 Amazon Sword Plant
8. 3 Cryptocoryne Beckettii
9. 1 Tropical Spatterdock
10. 4 Cryptocoryne Cordota
11. 3 Ambulia

Col. A-30—This collection for a 30 gallon Aquarium—
11 Varieties, 65 Plants.....collection price \$10.00

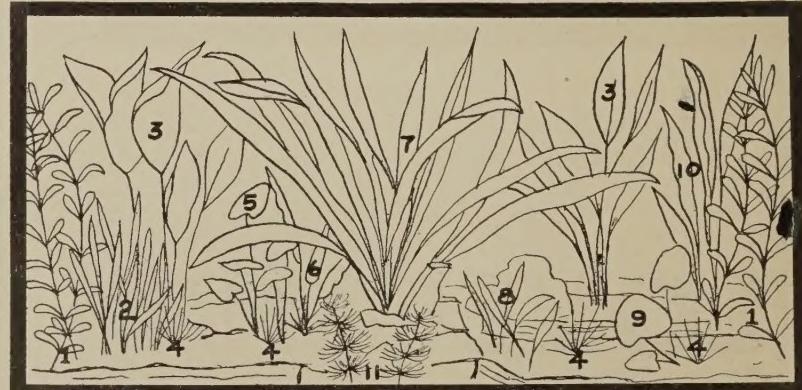
Col. A-15—For a 15 gallon Aquarium—
11 Varieties, 40 Plants.....collection price 7.50

Col. A-10—For a 10 gallon Aquarium—
11 Varieties, 25 Plants.....collection price 5.00

GRAVEL GUARDS

2 pieces across the front to hold gravel in place—1 ornamental center piece—2 terrace guards to give height in back.

S. G. G. 30—5 pieces for 30 gallon Aquarium	\$10.00
S. G. G. 15—5 pieces for 15 gallon Aquarium	7.50
S. G. G. 10—5 pieces for 10 gallon Aquarium	5.00



A horizontal row of six solid black five-pointed stars, evenly spaced, centered on a yellow background.

USE THIS ORDER SHEET

**DO NOT WRITE
IN THIS SPACE**

How to Order

Be sure you write plainly; if possible, type or print your name and address.

ON ALL ORDERS ADD 10%
OF THE TOTAL AMOUNT TO
COVER COST OF PACKING
AND POSTAGE. ORDERS FOR
\$1.50 OR LESS REQUIRE
15c FOR POSTAGE AND
PACKING

WE WILL SHIP EXPRESS,
CHARGES COLLECT — TROP-
ICAL FISH, GOLDFISH, TAD-
POLES, AQUARIUMS,
GRAVEL, AND LARGE FISH
NETS

NO TROPICAL FISH OR GOLD-FISH ORDERS WILL BE ACCEPTED FOR SHIPMENT IF DISTANCE IS OVER 1000 MILES.

WHEN PLANTS ARE ORDERED WITH ABOVE ITEMS, THE ENTIRE ORDER WILL BE SHIPPED EXPRESS, CHARGES COLLECT. Our business is growing and supplying "THINGS AQUATIC." Ordering from our catalog is your assurance of more value and pleasure for your aquatic-dollar. This year, more than ever before, more and more folks are doing their Aquatic shopping the simple, efficient, shop at your leisure, Loveland way. Our twenty-three years experience in raising aquatic plants assures you of receiving only the best of plants and merchandise for your aquarium and home. Our twenty-three acres here at Loveland, our greenhouses, our fifty concrete pools, our competent staff, all devoted exclusively to raising "THINGS AQUATIC" enables us to produce the highest quality plants and merchandise in volume to supply your needs at the minimum cost.

LOVELAND GOLDFISH FARM

JOE JOHANNIGMAN - JR.

LOVELAND, OHIO

Date

Name _____

Address *ent die Kunden*

[Sitz](#) [neben Ihnen](#)

Post Office

Executive Office

PF

TERMS: CASH WITH ORDER. NO GOODS SENT C. O. D.

TERMS EFFECTIVE SEPTEMBER 1, 1947

ORDER EARLY

This is most important—and use Order Sheet, carefully filling in blank places and enclosing payment for full amount of order. Write name and address plainly. To facilitate handling do not write letters on same sheet as orders.

REMITTANCE should be made by Post Office or Express Money Order, Bank Draft, or if more convenient to you, send your personal check.

Include 10% extra to amount of order for Parcel Post Shipment—which will take care of handling and prepaid postage. This applies to Water Lilies, Bog, Floating Shallow Water and Submerged Plants, Collections, Scavengers and Foods and Remedies.

ORDERS FOR \$1.50 OR LESS REQUIRE 15c EXTRA FOR PACKING AND POSTAGE. THIS AMOUNT MUST BE ADDED TO AMOUNT OF ORDER.

HANDLING GOLDFISH ON ARRIVAL. Never allow them to remain in their cans for too long a period or overnight. Before transferring fish to your pool or aquarium, be sure the temperature of water is of no great difference. Best to add some of your water to the can in which fish have been shipped. Use one ounce salt per gallon of water to help heal any injury that was done in shipping. Do not take fish in hands. Use a dip net.

CULTURAL DIRECTIONS. We have printed on small leaflets for your convenience complete cultural directions. One of these will be sent with each order.

GOLDFISH must be sent by express.

We ship Goldfish in this catalog all the year round. When plants are ordered with Goldfish the entire order is shipped via express, charges collect.

GUARANTEE

We ship good stock carefully packed. All goods are guaranteed to reach you in good condition. If shipment should arrive in bad condition—be sure to receive a Bad Order Report from the Express Co.—stating condition of package and of fish—condition of water and if delayed stated thereon. Loveland Gold-

Minimum order on goldfish—\$1.00.

No goldfish orders accepted if shipping distance is over 1000 miles.

Complete instructions Page 4.

Empty Fish Cans must be returned at once

Empty cans should be dried out and returned. Failure to return can, we will have to charge you \$2.00 to \$5.00 depending on can. If you do not care to help us—by returning can—please do not order.

Aquariums—aquarium gravel are shipped only by express—shipping charges collect.

DUE TO PRESENT CONDITIONS—PRICES ARE SUBJECT TO CHANGE WITHOUT NOTICE.

Bad Order Report

If shipment via express arrives in bad condition accept shipment but be sure to get this Bad Order Report from your express agent—stating loss—condition of shipment and if delayed—stated thereon—**No Claims Considered without this report.** Do not return merchandise without our permission. We still guarantee Live Arrival—but must have your cooperation—in securing necessary papers to file claim.

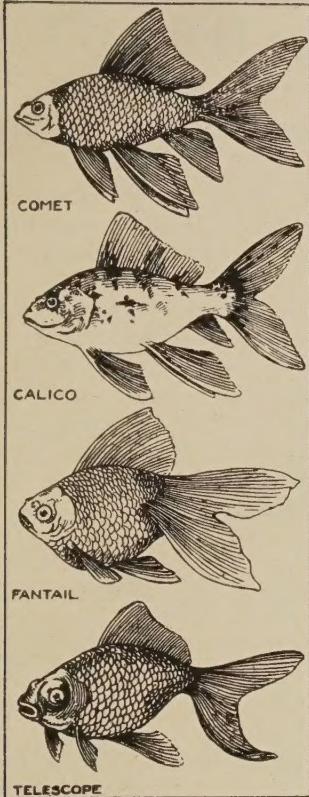
Where To Find It . . .

ITEM	PAGE	ITEM	PAGE	ITEM	PAGE
Aquariums	10-11	Filtration Equipment	15	Scavenger Collection	9
Aquarium Stands	10-11	Fish Nets	18	Thermostats	17
Aquarium Reflectors	10-11	Gravel Guards	11	Terrariums	20
Aquarium Accessories	18-19	Goldfish	5	Terrarium Plants	20-21-22-23-24
Aquarium Cement	18	Goldfish Collection	5	Bog Plants	21
Aerating Equipment	14	Heater Accessories	16-17	Collection	21
Aquatic Plant	6-7	Heaters	16	Cacti	22-24
Aquatic Plant Collection	2-9	Ornaments	11-18	Ivies	23
Aquarium Collection Complete	13	Planting Pots	11	Moisture Loving Plants	22
Breeding Traps	11	Plant and Scavenger Collection	9	Violets	22
Books	11	Remedies	19	Ferns	24
Fish Food	11	Scavengers—Snails	8	Terms	4

To our Customers on the West Coast: On West Coast orders we suggest sending your orders Parcel Post Special Delivery. If you desire Special Delivery include 25c extra.

PRICES APPLY ONLY TO
THE UNITED STATES PROPER

Orders to Canada—Be sure to include Proper Plant Permit—Plants sent Parcel Post.
All accessory orders, Goldfish, etc.—shipped via Express—Add \$1.00 to cover cost of extra packing and handling.



Goldfish . . .

FOR THE AQUARIUM

"A thing of beauty is a joy forever." The beauty and hardiness of the goldfish have made them an aquatic pet for centuries. Today these same species are still in abundance; still as beautiful in the aquarium. We are sure that you will be more than pleased with our goldfish selections.

COMET TAILS—a variety with graceful long tails. These are the best known of the goldfish.

2 to 3 inch	each 10c	dozen \$1.00
3 to 4 inch	each 15c	dozen 1.25

TELESCOPES—An odd fish with large protruding eyes, velvety black.

2 inch	each 25c	dozen \$2.50
3 inch	each 35c	dozen \$3.50

FANTAILS—These are the best liked of the Fancy Fishes.

2 inch	each 15c	dozen \$1.50
3 inch	each 25c	dozen 2.50

CALICO FANTAILS—Marvelously colored in mottled formation.

2 inch	each 30c	dozen \$3.00
3 inch	each 35c	dozen 3.50

ALL GOLDFISH ORDERS ARE SHIPPED VIA EXPRESS

COLLECTION NO. 57

Suitable for a two gallon globe or aquarium or can be used in any pan or tub. This collection will only be available—August to November, February to April, due to the scarcity of turtles at other times.

This collection includes:

- 1 Pair Turtles
- 1 Umbrella Palm
- 1 Box Turtle Food
- 1 Turtle Bridge

\$1.25

COLLECTION NO. 58

This collection makes an excellent gift idea. Consists of collection No. 57 with a tank suitable to keep the turtles in 2 gallon Tank No. 002

BABY TURTLES
UMBRELLA PALM
TURTLE BRIDGES

2 for 75c
Each 25c
Each 15c

TURTLE FOOD
CASTLES (Page 11)
PLANT POTS (Page 11)

COMPLETE \$3.50

Each 20c
Each 50c
Each 35c

GOLDFISH COLLECTIONS

Goldfish
For The Aquarium
Or Small Pool

COLLECTION No. G-1

10 fish—cute little Fantails—coal black Telescopes—Comet Tails—odd Shubunkins.

\$2.00

COLLECTION No. G-2

For the 10 gallon aquarium. 15 fish assorted.

\$2.50

COLLECTION No. G-3 Extra Fancy Goldfish

Fifteen selected Fantails, Telescopes, and Shubunkins in both the scaleless and regular varieties—medium sizes. All selected for good color, shape and fins. Will develop nicely in a ten to fifteen gallon aquarium.

\$3.35

(Above collection prices include shipping can)

Goldfish Are Shipped By Express

Minimum order \$1.00.

No orders accepted if shipping distance is over 1000 miles.

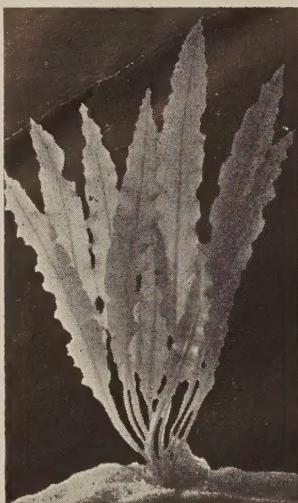
We guarantee live arrival on all goldfish.

If shipment should arrive in bad condition notify Express office claim department at once! Get a Bad Order Report and mail this to us, together with empty can and we will replace lost fish. Right reserved to replace or refund at our discretion.

Orders for fish up to 25 of the smaller sizes are shipped in small cans which are not to be returned. 35c should be added to your order for this can.

Orders for fish up to 50 of the smaller sizes, a regular shipping can is used. A \$1.00 deposit is required on these cans which must be returned prepaid. Deposit will be refunded. Orders for fish more than 50 are shipped in larger size goldfish cans. A \$3.00 deposit is required on these cans which must be returned prepaid for return of deposit.

WE DO LIKE—SOMETHING THAT IS DIFFERENT—SOMETHING TO BE PROUD TO OWN—WE REGARD THESE TWO PLANTS AS THE MOST MAGNIFICENT OF ALL LARGE AQUARIUM PLANTS.



APONOGETUM CRISPUS



APONOGETUM ULVACEUS

This plant is rated as the most magnificent of all large aquarium plants. The latticed, semi-translucent green leaves are truly beautiful. Comes from Madagascar. Reproduction is mainly from young plants found on bulb like root. Has wonderful growing qualities.

Price—\$2.50 each

Another magnificent aquarium plant. The somewhat translucent leaves of this striking plant look like green swords with rippled edge.

Price—\$1.00 each

IT IS NOT EXPENSIVE TO START YOUR OWN AQUARIUM NOR IS IT DIFFICULT TO KEEP YOUR PLANTS AND FISH HEALTHY. FOR THE LITTLE CARE THEY NEED THEY WILL REPAY YOU MANY TIMES OVER IN ENJOYMENT, EDUCATION AND GREATER ATTRACTIVENESS OF YOUR HOME.

HEALTHY PLANTS PRODUCE OXYGEN WHICH MAKES HEALTHY FISH. ALWAYS OF INTEREST IS SOMETHING NEW OR UNUSUAL. HERE IS A GROUP OF PLANTS THAT ARE UNUSUALLY GOOD.

CRYPTOCORYNE—This plant has many good points in addition to its interesting appearance. It does well in subdued light and the leaves are tough. There are four species. Multiplication is from runners and divisions of the roots.

CRYPTOCORYNE BECKETTII—A dwarf variety of light green foliage.

20c per plant.

CRYPTOCORYNE CORDATA—An attractive plant, top of leaf green, bottom of leaf red—wider than Willisii.

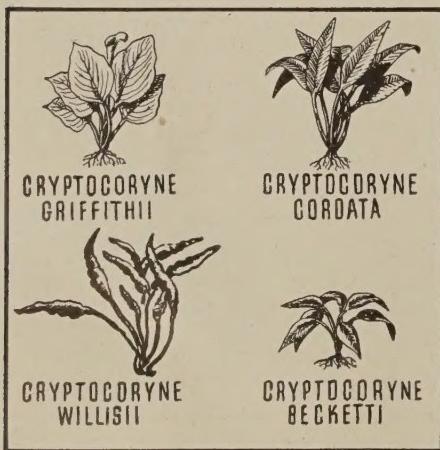
35c each

CRYPTOCORYNE GRIFFITHII—Larger than Willisii, with broad, oval, pointed leaves that are green on top, pink beneath.

75c per plant.

CRYPTOCORYNE WILLISII—A decorative plant which is out of the ordinary. Leaves shaped like terrestrial plant rising from a crown at the surface of the soil. Does well in subdued light.

25c



CRYPTOCORYNE COLLECTION

1 each above four varieties

\$1.35

YOU WILL ENJOY THIS
COLLECTION OF
AQUATIC PLANTS.

PER BUNCH

35c

COMPLETE COLLECTIONS AQUATIC PLANTS LISTED PAGE 9

ENJOY NATURAL BEAUTY WITH THESE AQUATIC PLANTS

All you need for equipment is a rectangular glass aquarium of capacity from 2 to 20 gallons, sufficient aquarium gravel or well washed sand to cover the bottom of the aquarium to a depth of two inches.

Plants are the most important of the aquarium equipment. They keep the water in good condition because they release oxygen, and, on the other hand, take up the carbon dioxide given off by the fishes. Plants also serve as a natural refuge for the inhabitants from too much light. They are the first essential of an attractive and well-balanced aquarium, for their utility as well as their educational value. It is because of the plants that you do not have to change water in an aquarium.

To human beings plants are used around the house for decorative purposes; in the aquarium they serve the same ornamental purpose plus a more valuable one, that of furnishing oxygen to the fish.

We have listed only those plants which we know from experience are the best for the purpose. Plants shipped are divided into two classes: those with roots and crowns which must be rooted in sand, and others which are shipped as bunched plants. These can be separated and the stems anchored in the sand and readily take root. At times immediately after planting the water may assume a cloudy appearance, but as the plants grow this coloration will disappear.

By a balanced aquarium is meant a tank in which the air surface of the water supplemented by plants will supply sufficient oxygen for the needs of the fish to be maintained therein. Also a well balanced aquarium, the plants and scavengers will consume most of the refuse from the fish, making the changing of the water in the tank unnecessary, although enough fresh water should be added from time to time to compensate for evaporation.

GET ACQUAINTED WITH HYGROPHILA

This plant adapts itself readily to aquarium conditions. A fast growing plant with long strap like leaves. Hygrophila is so attractive that it should be an addition to every aquarium.



HAVE A GOOD SUPPLY OF PLANTS IN THE AQUARIUM. MORE THAN HALF THE BEAUTY OF AN AQUARIUM IS IN ITS PLANTING.

Listing now two of the most popular varieties—
VALLISNERIA SPIRALES—(Eel grass). This plant in moderately good light multiplies rapidly and forms a dense growth. It is one of the best oxygenators. 5 for 25c; 50c per dozen.

VALLISNERIA "CORKSCREW"—A variation with spiral formation of its leaves. Very desirable as it only grows to the top of the water. 5 for 25c; 50c per dozen.

VARIEGATED VALLISNERIA—A broad leaf variety excellent for larger size aquaria. 2 for 25c

SAGITTARIA—AN OLD BUT USEFUL PLANT, IT HAS GRASS LIKE FORM AND PROPAGATES BY RUNNERS.

SAGITTARIA SINENSIS—This variety generally grows from 6 to 12 inches, one of our best items. 10c each; 3 for 25c.

SAGITTARIA SUBULATA—Its leaves are narrow and thick and dark green. Plant propagates rapidly, leaves, 4 to 10 inches long. 3 for 15c—50c per dozen

SAGITTARIA MICROFOLIA—Excellent for front planting, dwarf variety grows 2 to 3 inches in height. 4 for 25c

SAGITTARIA PUSILLA—A very desirable variety for small tanks. 5c each; 50c per dozen.

TOO—THE AQUARIUM GARDEN IS ONE OF THE MOST ATTRACTIVE OF ADDITIONS TO THE LIVING ROOM OR THE DINING ROOM. IT IS AN OUTSTANDINGLY DIFFERENT TYPE OF FURNITURE AND BEAUTIFULLY TAKES ITS PLACE WITH THE SCHEME OF DESIGN.

Plants for special purposes.

Choice varieties to add to the aquarium.

AMBULIA—A new plant similar in appearance to Cabomba—but much more satisfactory to use in aquarium—light green plant. 35c per bunch.

BANANA PLANTS—An aquatic oddity and easy to grow—a real curiosity—just place it in the tank and watch it grow. 20c each.

CARDIMINE—Round sage green leaves. Per bunch 25c.

CELLOPHANE PLANT—Have leaves of beautiful (cellophane)—green—plants are attractive as center plant; from Honduras. Medium plants 25c—Large plants 50c.

WHILE IT IS ADVISABLE TO GIVE THE FISH AS MUCH SPACE AND NATURAL SURROUNDING AS POSSIBLE YET ONE SHOULD NOT CONDEMN THOSE THAT DO NOT HAVE THE SPACE TO MAINTAIN A LARGE OUTFIT AND HAVE THEIR FISH IN A GLOBE—MILLIONS OF FISH ARE KEPT AND MAINTAINED IN THESE GOLDFISH GLOBES—with complete success.

Anacharis—Cabomba—Dwarf Anacharis

Ludwigia—Green Myrio

The varieties of the above list of plants are in separate bunches.

15c Per Bunch

THE ABOVE PLANTS ARE BUNCHED—THESE VARIETIES ARE SUITABLE TO USE IN GOLDFISH GLOBES OR CAN BE USED IN TROPICAL AQUARIUMS—BY GENTLY ANCHORING IN THE SAND OR GRAVEL.

FLOATING PLANTS—Duckweed, Salvinia, Riccia, assorted. 25c per portion

AMAZON SWORD PLANT—A gorgeous aquatic plant. Large leaves, bright green varying in shade, depending on light. Excellent as a centerpiece plant. Young plants are produced by runners. 75c each

DWARF AQUARIUM LILY—A true Water Lily that grows well in sand in the aquarium. 45c per plant.

FLOATING WATER FERN—This is an interesting plant. Grows anywhere in size from an inch to 2 feet in diameter, according to the conditions under which it is kept. It is viviparous, the young plants forming in large plant leaves. 10c per plant.

FOUR LEAF CLOVER. per portion 25c

HAIR GRASS—We now have two varieties of this plant. Floating Variety—that can be planted or allowed to float. Another variety that stays dwarf—which grows about three inches tall. 20c per portion.

SPATTERDOCK, SOUTHERN—Beautiful, fan-shaped leaves, needs good light. 20c each

SPATTERDOCK, TROPICAL—A wide, round-leaf variety that is very attractive. 20c each

SAG. GUAYANENSES—Oval, wide leaved, center plant. Requires a bright light. 25c

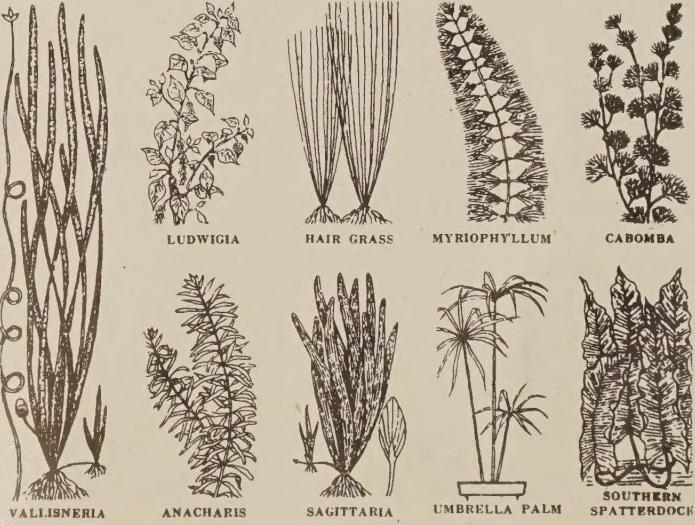
WATER SPRITE—Long graceful fronds spread fanlike in the water. A very desirable plant. Interesting to watch the young plants form on the old leaves. Small size plants 15c each; large size 25c each.

WATER ORCHID—A beautiful shaped subaqueous—grows under shaded conditions. Sometimes produce flowers. Per plant 35c

AQUATIC LIFE HAS UNTOLD VALUES IN THE INDOORS AND BE IT IN THE HOME OR IN THE OFFICE, IN THE SICK ROOM—THE UNUSUAL AMOUNT OF PLEASURE RECEIVED FROM AN AQUARIUM OFFSETS WHAT LITTLE EFFORT MUST BE MADE FOR THE UPKEEP. LITTLE DIFFICULTY IS HAD IN MAINTAINING AN AQUATIC GARDEN ONCE IT IS ESTABLISHED.

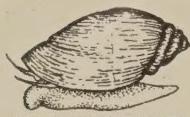
PLANTS SHOULD HAVE 8 TO 10 HOURS—GOOD NATURAL LIGHT. IF IN A POOR POSITION FOR LIGHT AN ELECTRIC LIGHT MUST BE SUBSTITUTED. THIS IS DONE BY PLACING A REFLECTOR ON THE TOP OF THE AQUARIUM—GIVING THE PLANTS 8 TO 10 HOURS OF THIS ARTIFICIAL LIGHT. THIS WILL GROW PLANTS AS WELL AS NATURAL LIGHT.

ALL PLANTS REGARDLESS OF THE SIZE OF AN ORDER MUST BE PACKED CAREFULLY TO INSURE AGAINST DAMAGE DUE TO DRYING OUT, ROUGH HANDLING AND COLD. THE BULK OF THE WEIGHT IS IN THE WET PACKING.

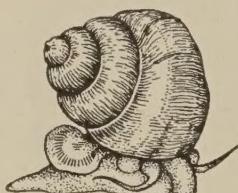


SCAVENGERS . . .

for the Aquarium



AUSTRALIAN SNAIL



JAPANESE SNAIL



RED RAMSHORN
SNAIL



FOUR HORNED SNAIL



POND SNAIL



BLACK RAMSHORN
SNAIL

Be sure to have some scavengers in your aquarium. Scavengers consume the excrements of the fish, in fact any and all refuse which they find in the aquarium, and thus keep the water clean and in excellent condition. Scavengers placed by themselves in an aquarium are very interesting to watch. The Japanese Snails bring forth their young alive. The Water Newts and Turtles, while not as useful as Scavengers, are very entertaining.

NEW PHILLIPINE SNAIL—"Horn of Plenty"—a pygmy snail of dark brown color—live bearing—very prolific. I regard this snail very highly—in maintaining an aquatic garden for its ability to eat up excess food—2 for 25c—\$1.00 per dozen

FOUR HORNED SNAILS (*Ampullaris Cuprina*) A very interesting and useful scavenger for aquarium uses. A real attraction. The snail lays eggs above the water level. They deposit between 200 and 300 eggs in one bunch. Medium size snails 2 for 25c, \$1.00 dozen—Large Breeder size 2 for 75c

FOUR HORNED SNAILS EGGS—We can supply these eggs. They come in a nest. These small snails are easy to hatch. There are approximately 200 to 300 in a nest. Direction with order. Price \$1.00

TRAP DOOR SNAILS (*Viviparus Malleatus*) Originally from Japan but now raised in this country. The sexes are separate in this variety.

Extra large selected 35c per pair—assorted sizes 2 for 25c—\$1.00 per dozen

BLACK RAMSHORN SNAILS (*Planoribus Rubrum*). They are prolific, spawning from October to June.

Extra large size selected 2 for 20c—assorted sizes 6 for 50c

RED AUSTRALIAN SNAILS—a dwarf variety that is very prolific—egg layer. 3 for 25c

RED RAMSHORN SNAILS (*Isarora Proteus*). An active worker, egg laying variety.

Small, 6 for 25c

POND SNAILS (*Physa*).

2 for 25c—\$1.00 per dozen

FRESH WATER CLAMS. (Mussels)

BABY TURTLES. Little fellows about two inches across, with mosiac designs on their upper and lower shells. These little fellows should be fed—Turtle food—fresh lettuce and white worms.

2 for 75c

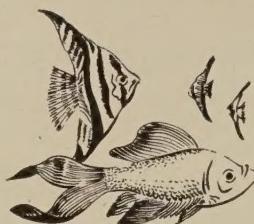
AMERICAN NEWT or SALAMANDER.

Each 35c—6 for \$1.50

SCAVENGERS COLLECTIONS ARE LISTED ON PAGE 9.

TROPICAL FISH

FOR THE AQUARIUM



To accommodate our customers we are listing this season some of the varieties we carry in stock and will ship them under the following terms.

TERMS

Due to uncertain shipping conditions and handling enroute we will ship tropical fish only at customers risk and will not guarantee live arrival.

We will ship tropical fish only in months from March to November. No order accepted over 1000 miles shipping distance from Loveland, Ohio. Minimum order \$3.00 or more; include \$1.00 extra for packing and can charge (returnable for 50c credit.)

If shipment arrives in bad condition notify Express Office, Bad Claim Dept. and file your own claim.

LIVE BEARERS

Red Moons	each 50c
Gold Crescent Moons	each 50c
Helmet Moons	each 35c
Calico Moons	each 35c
Blue Moons	each 35c
Gold Wagtails	each 50c
Red Wagtails	each 75c
Yellow Tail Variatus	each 35c
Red Tail Variatus	each 50c

Red Swordtails	each 50c
Mexican Swordtails	each 50c
Red Tuxedo Swordtails	each \$1.00
Blood Red Swordtails	each \$1.00

Black Mollies	each 50c
Marble Mollies	each 50c
Sphenops Mollies	each 50c

Guppies, Gold	each 25c
Guppies, Trinidad	each 25c

EGG LAYERS

Danio Rerio (Zebra)	each 35c
Barbus Sumatranaus	each 75c
Rosy Barbs	each 50c
White Clouds	each 50c
Head and Tail Lights	each 75c
Neon Tetra	each \$2.00
Tetra Von Rio	each 50c
Black Tetra	each 50c
Tetra Rosaceus	each \$1.00
Ambassis Lala	each 75c
Rasbora Heteromorpha	each \$2.00
Angel Fish medium	each 75c
Angel Fish medium large	each \$1.50
Angel Fish large	each \$2.50
Angel Fish extra large	each \$5.00
Bettas, small	each 50c
Bettas, large male	each \$2.25
Bettas, large female	each \$1.00
Blue Gourami	each 50c
Dwarf Gourami	each 75c
Kissing Gourami	each 75c
Catfish	each \$1.50

COLLECTIONS THAT ARE COMPLETE . . .

AQUATIC PLANT COLLECTIONS

COLLECTION NO. A-2

For those aquarists with a five to eight gallon aquarium who desire a wider variety of oxygenating plants we recommend this collection. Eight varieties of plants. **\$1.00**

COLLECTION NO. A-3

An assortment of at least 20 selected plants in eight to ten varieties. Sufficient for an attractive display in a 10 gallon aquarium. **\$1.50**

COLLECTION NO. A-4

A DeLuxe assortment of at least 20 assorted plants including some of the more rare types such as Cryptocoryne, Cellophane Plant, Spatterdock, etc., for a 10 to 15 gallon aquarium. **\$2.50**

COLLECTION NO. A-5

For the 15 to 20 gallon aquarium we recommend this assortment: 30 plants of at least 12 varieties including the Cryptocoryne. **\$3.00**

COLLECTION NO. A-6

For the 20 to 30 gallon aquarium—a collection of 30 or more plants including the four varieties of Cryptocoryne and one of the Aponogeton. **\$5.00**

SCAVENGER COLLECTION

Collection No. S-10

Snail collection. Consists of a selection of five varieties of snails. All nice, selected specimens. **\$1.25**

PLANT AND SCAVENGER COLLECTION

PS-1—Plants and Scavengers. A collection suitable for a 2 to 5 gallon aquarium. **8 Plants and 4 Snails \$1.00**

PS-2—A collection of 15 selected plants and 6 assorted snails—suitable to Balance a 10 gallon aquarium. **\$1.50**

PS-3—This collection for a 15 to 20 gallon aquarium. 20 assorted Plants (Col. A-4) and asst. of Snails (Col. S-10). **\$3.50**

TROPICAL FISH

COLLECTION NO. F-1

Live-Bearing Fish. These fish bring forth their young alive. A collection of fifteen fish in all the popular varieties. Swordtails, Moons, Black Mollienesia, Veil-tail Guppies, etc. This complete collection for a 10 to 15 gallon aquarium. **\$3.50**

COLLECTION NO. F-2

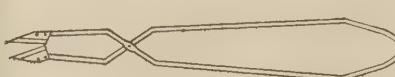
Egg-Laying Fish. These fish lay eggs; some adhesive, some non-adhesive. Five pairs of these interesting fish consisting of Daneos, Tetras, Gourami, Betta and Barbs—This collection suitable for the ten or fifteen gallon aquarium. **\$5.00**

COLLECTION NO. F-4

Happy Family Assortment—This assortment consists of live bearing fish such as Swordtail, Moons, Mollies, Guppies, Daneo, Tetra and Barbs—Seven pair—suitable for a ten or fifteen gallon aquarium. **\$5.00**

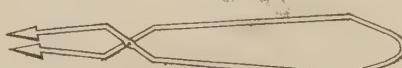
On tropical fish orders we loan you the container. This container is to be returned at once express Prepaid—30c flat rate from anywhere in the United States.

Live arrival guaranteed on Tropical Fish from April 1st to November 1st only. Balance of time at Customers risk only.



PLANTING TONGS—Simplifies the planting of deep aquariums, eliminates removing water from tank to add new plants. 19 inches long, rustproof. Price **\$1.00**

PLANTING SCISSORS—for use in trimming dead leaves or cutting back overgrowth, 19 inches long, rust-proof. Price **\$1.25**



AQUARIUMS



The Following Are The Sizes Now In Stock

	Width	Length	Height	
No. AC 2	6	10	8	2 gal. \$ 3.50
AC 3	7	12	9	3 gal. 4.50
AC 5	8	14	10	5 gal. 5.75
AC 8	9½	18	11½	8 gal. 8.00
AC 10	10	20	12	10 gal. 10.50
AC 15	12	24	12	15 gal. 14.00
No. AC 20	12	24	16	20 gal. \$20.00
AC 30	12	36	16	30 gal. 42.50
AC 39	14	36	18	39 gal. 60.00
AC 50	18	36	18	50 gal. 90.00

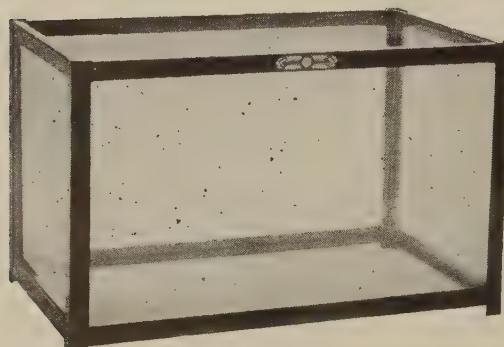
AQUARIUM STANDS

10x20 for 10 gal. aquarium	\$10.50
12x24 for 15 or 20 gal.	11.00
12x36 for 30 gal.	15.95
14x36 for 39 gal.	18.50
18x36 for 50 gal.	19.50

ALL STANDS ARE 30 INCHES HIGH

SHIPPED BY EXPRESS

BUILT OF WROUGHT IRON



All Aquarium prices include Packing charge.

Aquariums are shipped only VIA Railway Express and are sent express charges collect. If aquariums arrive in bad condition (this happens at times) get a Bad Order report from the express agent. No claims considered without the report. Do not return any damaged merchandise without writing for instruction first.

This Bad Order report must be mailed to us here in order that we can file claim.

STAINLESS STEEL AQUARIUMS

These aquariums are made of DeLuxe Construction and because of their better class metal exceptional care is taken to have the glass of extra clear vision quality. Slate Bottoms.

These aquariums when landscaped and set up will lend atmosphere to any room in which they are placed.

Prices quoted do not include gravel guard and gravel as illustrated.

ITEMS IN THIS PAGE SENT ONLY BY EXPRESS



Stainless Steel Reflectors

Aquarium Reflectors are essential where natural light is not strong to stimulate plant growth.

20 inches long	10.50
24 inches long	12.00
30 inches long	12.00
36 inches long	14.00

As illustrated

Stainless Steel Reflectors

FLUORESCENT

20 inches long	\$15.50
24 inches long	\$17.50
36 inches long	\$19.50

GLASS BOTTOM AQUARIUMS

Made with clear glass sides, glass bottom. Beautiful and durable. Black baked enamel metal frames.

	Width	Length	Height	
No. AO 2	6½	14½	7½	2 gal. \$2.00
AO 5	9¼	15¼	9½	5 gal. 4.50
AO 10	10	20	10	10 gal. 7.50

Shipped only by Express



METAL FRAME AQUARIUMS

No.	L.	W.	H.	Capacity	Price Each
002	14 1/4	6 1/2	6	2 gal.	\$2.50
005	16 1/4	8 1/2	10	5 gal.	4.75
010	24 1/4	10 1/2	10	10 gal.	7.75
015	24 1/4	12 1/2	12	15 gal.	12.00
020	28 1/4	12 1/2	14	20 gal.	17.50

REFLECTORS

Size		Price
16"	fits 5 gallon aquarium	\$5.00
24"	fits 10 & 15 gallon aqu.	7.50
28"	fits 20 gallon aquarium	8.50

NOTE: All reflectors constructed to fit above illustrated aquariums. They are made with 6 feet of cord and switch.

THERE IS SOMETHING ABOUT AN AQUARIUM

In your home, in the office, or in the school, an aquarium provides an enduring and educational hobby that is fascinating to both young and old. Here is pleasure and relaxation from observation of your finned pets; pleasure of which you will never tire. Here is nature at your elbow; in your aquarium an ever changing panorama of undersea life and beauty. Vivid rainbow colored fish of odd shapes and sizes contrasted beautifully against the peaceful green background of graceful aquatic plants arranged to suit your own aquascaping desires. Watch them live, watch them grow!

To those of you who have friends who own an aquarium that you have admired or aspired to own one like it, our catalog, we hope, may be the key opening the door to hours and even years of untold beauty, pleasure, and relaxation in your own home.

STANDS

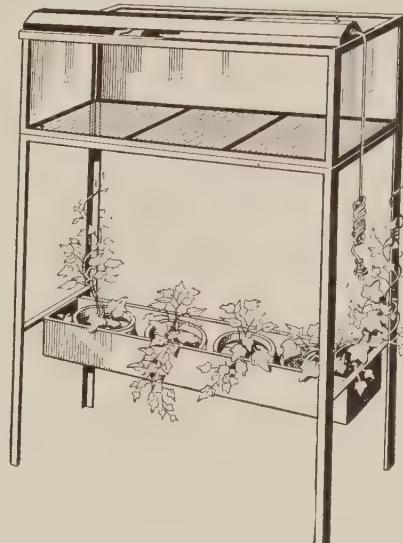
Size		Price
8 1/2x16"	fits 5 gallon	\$5.00
10 1/2x24"	fits 10 gallon	7.50
12 1/2x24"	fits 15 gallon	8.50
12 1/2x28"	fits 20 gallon	9.50

NOTE: All stands are made 30" in height of angle iron, flush welded, with aluminum painted finish. They may be purchased with or without tray for ivy plants.

TRAYS

Size		Price
16"	fits 5 gallon	\$1.50
24"	fits 10 & 15 gallon	1.75
28"	fits 20 gallon	2.00

NOTE: All trays made of a light gage metal, painted aluminum. Constructed to fit base of stand and giving added beauty to this arrangement.



BETTA TANK

Black finish with white stripe

No. B1-16 long 6 wide 8 high 3 gallon 3 Compartments \$5.50.

No. B2-24 long 6 wide 8 high 5 gallon 5 Compartments \$7.50.

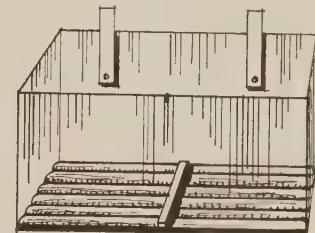
Shipped by Express



ANGLE IRON FRAME

This aquarium represents the greatest value to be secured. Of pleasing dimensions, with frame rigidly and staunchly constructed of 1" angle iron. Beautifully japaned in olive green.

	Width	Length	Height	
No. AJ 15	12	30	12	15 gal. \$20.00
AJ 20	14	30	14	21 gal. 25.00

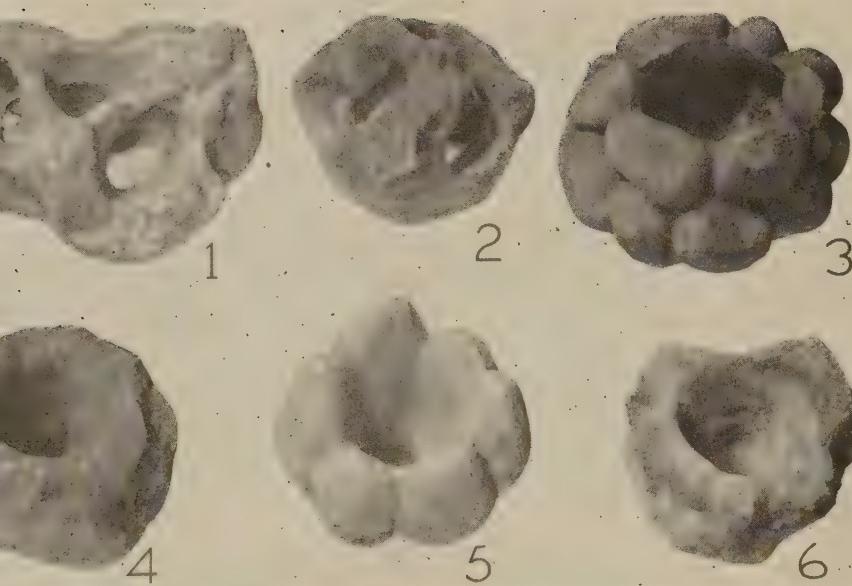


BREEDING TRAPS

Save those babies! Two different styles. V bottom for the live bearers, square bottom for the egg layers, made of lucite with hooks to suspend trap in the aquarium. Fry will drop through slits in the bottom.

V shape	\$1.75
Square—4x4x8"	2.00
Square—4x4x12"	3.00
Square—4x4x16"	4.00

PLANTING POTS



Useful and attractive in small aquarium—Plant and Plants in the Pots—In larger aquariums—for planting such plants as Amazon Sword Plants, Cryptocorynes. Made of a special cement.

No. 1—4 holes for planting Anacharis, Cabomba, Ambulia—Can also be used for house plants such as Succulents and Cacti 3" high, 4½" wide, 5½" long	each 75c
No. 2—2 holes 3" high, 3" diameter	each 50c
No. 3—5" diameter, 3" high	each 50c
No. 4—4" diameter, 2" high	each 35c
No. 5—3½" diameter, 3" high	each 35c
No. 6—3½" diameter, 2½" high	each 35c

GRAVEL GUARDS



This style guard is constructed of cement in blended colors with slate or other rocks, and blends in naturally with the plants. We have used this type in our own show tanks for years. Customers have admired them.

No. GG3 for use in aquarium 2 or 3 gallon about 6 inches long 25c

GG4 for 5 gallon about 8 inches long 35c

GG5 for 10 gallon about 10 inches long 50c

GG6 for 15 to 20 gallon about 12 inches long 75c



The above guards are for larger size aquaria of sturdy construction, made of plain cement and slate, length about 11 inches, depth 5 inches, weight about 4 pounds. Shipped only by express.

GG7 square style \$1.00 each

GG8 round style 1.00 each



The above illustrated guard to be used in 2 to 5 gal. size aquarium.

No. G. G. 1 6¾" wide by 3¼" deep 35c Ea.

No. G. G. 2 Same size but crescent shape 35c Ea.



ORNAMENTAL CLAY CASTLES

No. 1—Coral—4¾" high each 50c

No. 2—Castle—3¾" high each 50c

No. 3—Castle—3¾" high each 50c

No. 4—Castle—3¾" high each 50c

No. 5—Mermaid 3" high each 50c

Aquarium Collections That Are Complete

THESE COLLECTIONS ARE OFFERED AS COMPLETE AQUATIC UNITS—LISTING SUCH ITEMS AS AQUARIUMS, FISH, PLANTS, SCAVENGERS, AND ACCESSORIES GROUPED TOGETHER AT ONE ADVANTAGEOUS PRICE:

COL. NO. C. A. 15—Consists of Col. No. A5, (aquatic plants)—A snail assortment No. S-10—a large size gravel guard—(15 in.) 25 lb. sack of gravel—a large dip net—1 box fish food—1 bottle Pararemedy—medicated ball.
Price complete \$5.75

COL. NO. C. A. 115—Consists of a 15 gallon Stainless Steel Aquarium and Col. No. C. A. 15. Above complete collection. Price complete \$19.50

COL. NO. C. A. 10—Consists of aquatic plant Col. A-4—Snail assortment No. S-10—A medium size gravel guard, 15 lb. sack gravel—a large dip net—box fish food—bottle Pararemedy—medicated ball.
Price complete \$4.75

COL. NO. C. A. 100—Consists of 10 gallon Stainless Steel Aquarium. No. A. C. 10 and Col. No. C. A. 10 above complete collection. Price complete \$14.50

COL. NO. C. A. 100-0—Consists of 10 gallon aquaria. No. A. O. 10 and Col. No. C. A. 10. Price complete \$12.50

COL. NO. C. A. 8—Consists of aquatic plant Col. No. A-3—collection of snails No. S-10—a gravel guard to fit—a 10 lb. sack gravel—dip net—can of fish food—bottle of Remedy—medicated ball. Complete assortment \$4.00

COL. NO. C. A. 180—Consists of 8 gal. Aquarium Stainless Steel No. A. C. 8 and above Collection No. C. A. 8. Price complete \$11.50

COL. NO. C. A. 5—Consists of aquatic plant Col. No. A-2—Six assorted snails—a 5 lb. sack of gravel—dip net—can of fish food—bottle of Remedy—medicated ball. Complete collection \$3.00

COL. NO. C. A. 150—Consists of 5 gal. Aquarium No. AC5 Stainless Steel and Col. No. CA5 above collection. Price complete \$8.50

Col. No. C. A. 150-0—Consists of 5 gal. Aquaria No. AO 5. Price complete \$7.50

COL. NO. C. A. 20—Consists of Collection No. A1. Aquatic Plants. Two Pair snails, small size gravel guard, Sufficient gravel, dip net, 1 box fish food, 1 bottle Pararemedy, 1 Medicated H1 Balls. Price complete \$2.25

COL. NO. C. A. 200—Consists of 2 gal. Stainless Steel Aquarium No. AC2 and above collection No. C. A. 20. Price complete \$5.00

With two pair Trinidad Guppies \$6.00

With one Male Betta (Siamese fighting fish) 7.00

All the Aquariums—with Complete Assortments are shipped only by Express—Express charges collect.

If tropicals or goldfish are desired with above assortments for the ten and fifteen gallon aquarium we suggest Col. No. F-1—F-2 or F-4 Tropical Fish or Goldfish Collection No. G-3.

For the 8 gal. aquarium—we have a collection of goldfish—G-1 10 asst. fish—\$1.75—Tropical Live Bearing Fish F-5 10 fish for \$2.00.

For the 5 gal. aquarium—we can assort you 6 goldfish Col. G-10 for \$1.25.

If Tropical Fish—are to be used in the above aquarium—a Thermostat and heater are suggested as necessities; for the fifteen gal. aquarium—a 50 watt or 75 watt—10 inch heater for the 8 or 10 gal.—a 25 watt or 50 watt for the five gal. a 25 watt heater.

JOJO PRODUCT GROTTO AQUARIUM ORNAMENT



Here is the aquarium ornament you have been looking for. An artistically made, natural looking, castle-like, grotto 12 inches long, 6 inches high. Here is an ornament that will blend well with the natural surroundings in your aquarium. Price \$4.75.

Sent only by Express

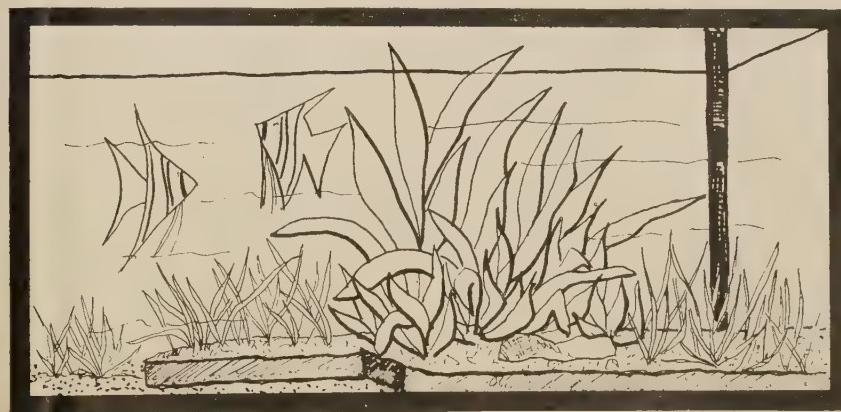
SUNRISE COLLECTION

From one of our own Show tanks this Collection has been admired by everyone who has seen it. During the two years we have had it growing here many visitors have purchased a similar assortment of plants for their own Aquariums.

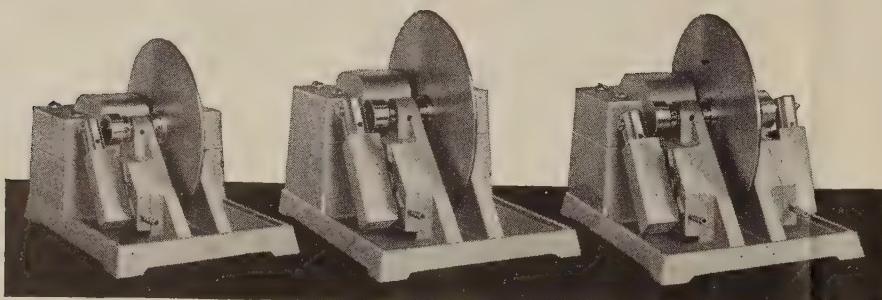
We are offering it now as a special Collection suitable for planting in 15 gallon Aquariums.

Includes:
12 Cryptocoryne Cordata
24 Sagittaria Microfolia

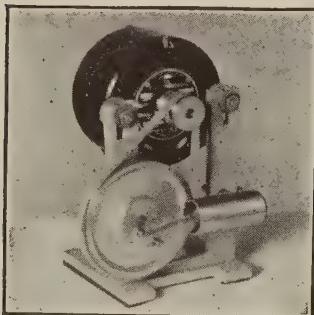
COLLECTION PRICE **\$4.75**



AEREATION The Mark of Distinction of The Real Aquarist



THE MARVEL AIRFLOW



Aerates 1 to 24 aquariums

Operates 1 to 6 filter

Operates as inexpensive as a small-wattage bulb.

The Marvel Airflow is self starting—causes no radio interference, is quiet, requires no air filter, uses 110 volts—and carries an unlimited guarantee. \$21.00

MAGNUS AIR PUMP ACCESSORIES

Compression Disc Units (2 in pkg.)	\$.25
Belts	1.00
3 way needle Valve with Base	.85
2 way needle Valve with Base	.85
Marvel Air Releaser	each .30

No. 1 Air Valve— $\frac{1}{8}$ inch threaded.

No. 2 Air Valve 3 way—(illustrated)
2 way left—2 way right.

No. 3 Brass X.

No. 4 Brass T.

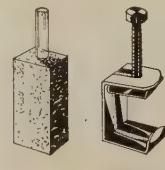
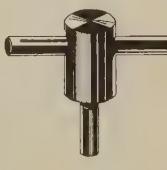
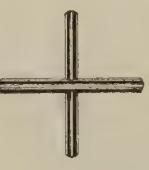
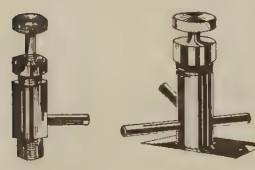
No. 5 Brass T.

No. 6 Air Stones.

No. 8 Metal Clamp open.

AERATING AND FILTER ACCESSORIES

Each 75c	Glass wool for aerator.....per lb. \$2.50 per portion .25	Lucite T .....each .35 Lucite X .....each .35
Each 75c	Activated Charcoal.....per lb. .50	12" Plastic Stone Extension.....each \$.15
Each 35c	Plastic Tube Hose.....per foot .07	6" Plastic Stone Extension.....each .10
Each 35c	.....per 100 feet 5.00	12" Filter Extension .....each .25
Each 35c	Air Hose—Rubber.....per foot .07	12" Right Angle Extension .....each .35
Each 35c	.....per 100 feet 5.00	Filter Strainer .....each .15
		6 feet Plastic Air Extension .....each .45
		Filter Stem Set .....each 1.50



DIVER

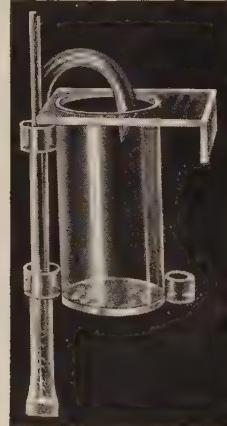
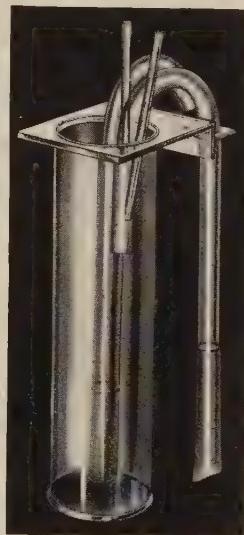
Adds that final realistic — undersea touch — aerating stone in helmet.

\$2.00



FILTERATION

FOR CRYSTAL CLEAR AQUARIUMS
HEALTHIER FISH—BEAUTIFUL PLANTS



POWER DIP TUBE—Something new and useful. Attached to and powered by the air pump. Eliminates the removal of water from the tank. Waste is carried into the filter cup and is retained there by the filter material while the water is forced back into the tank.

Price \$2.75 each

SENIOR PLASTIC TUBULAR FILTER—Will filter 480 gal. water in 24 hours—8 inches high Complete \$5.00

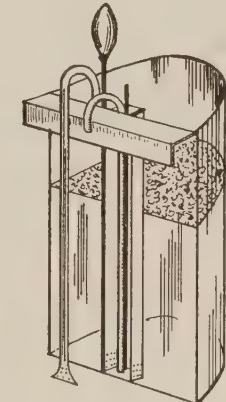
JUNIOR PLASTIC TUBULAR FILTER—Will filter 380 gal. water in 24 hours—6 inches high. Complete \$4.75

OUTSIDE PLASTIC FILTERS—All celluloid unbreakable construction. Complete with two stems. Rubber ball starter. Glass wool and Charcoal. Filter Sr. size 8½ inches high—5 inches long—3¼ inch width. Price \$5.50

All Outside Filters complete with charcoal and glass wool.

INSIDE PLASTIC FILTER—Tubular—an easy to operate—efficient filter—Complete with glass wool. \$4.00

INSIDE PLASTIC FILTER—Square—fits neatly in the corner. \$4.00



All these Filters need an Aerator to operate.



No. 1

No. 2

No. 3

ARTISTIC AIR RELEASERS—These beautiful ornaments are so constructed to conceal an air stone. The air bubbles come from behind the ornament. The air stone is hidden.

No. 1—About 5½" high, 7" long.....\$1.00
No. 2—About 7" high, 8" long.....2.00

No. 3—About 4½" high, 6" long......75

As these are hand made, no two are exactly alike.



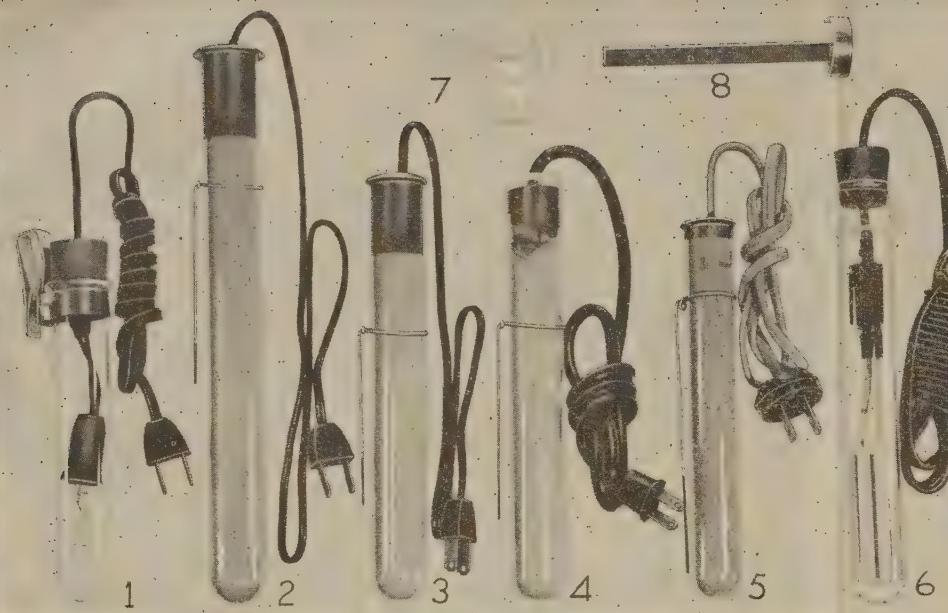
AIR-KONTROL

An air filter and out-let valve control; enables you to control and filter the air from your pump to releasers and filter. Guaranteed non-corrosive; made of brass, stainless steel, and durable rubber. All in one unit.

Price each \$4.00

AQUA AIRE—is a thermal style aerator that will aerate adequately the usual type home aquarium—six month guarantee. Lucite clip—five feet of approved wire with plug. \$2.98

HEATERS



HEATERS AS PICTURED ABOVE

1. GLO-LITE HEATER—A combination chill breaker and aquarium light to heat and illuminate a small tank (2 to 5 gallons) at the same time at a very low cost. Comes with asbestos shade (Not shown in picture) to control amount of light. Six inch glass tube price each **\$1.50**.

2. RENOYLENE HEATER—Pyrex tube with non-corrosive metal holder. Heating element of Grade A chrome steel to insure high safety factors. 10 inch Tube, 25-50-75 watt, each **\$1.75**.
10 inch Tube, 100 watt, each **\$2.00**.

3. RENOYLENE HEATER—Same as No. 2 in an 8 inch Pyrex tube. 8 inch tube 15-25-50-75 watt, each **\$1.65**.

(BE SURE TO STATE WATTAGE DESIRED ON ORDER)

4. LOVELAND HEATER—This type of heater may be completely submerged or place on the bottom of aquarium if desired. Absolutely water proof; sealed with live rubber; heavy duty water proof cord 36 inches long to allow heater to lie on bottom where the water is the coldest to give better distribution of heat.

6 inch Pyrex tube, 12½ and 25 watt, each **\$2.50**.
8 inch Pyrex tube, 25-50-75 watt, each **\$2.75**.
10 inch Pyrex tube, 125 watts, each **\$3.25**.
These heaters can be furnished on special order in 150-175-200-250 watts at \$4.00 each.

5. ECON-O-HEATER—Servicable heating at economy cost. A good heater at a new low price. Nichrome heating unit; metal clamp holder.

7 inch Pyrex tube, 10-20-30-40 watts, each	\$1.50
7 inch ordinary glass tube, 10-20 watts only, each	\$1.35

6. SIMPLEX COMBINATION HEATER AND THERMOSTAT—The arrangement of the heating element, thermostat, and radio static eliminator in a single pyrex tube make this unit very simple and space saving. The solid heating unit is practically everlasting and being at the bottom of a long tube gives good bottom heat.

8 inch tube, 40 watt, each	\$4.00
10 inch tube, 50 watt, each	\$4.25
10 inch tube, 75 watt, each	\$4.50

BIRG THERMOSTAT—Temperature range 70° F. to 100° Outside top adjustment knob. Controls up to 600 watts combined heaters. Guaranteed for one year. 3½ foot lead cord with 3 way connection for pilot light and heaters. each **\$4.95**

(Pilot light if desired 35c extra)

BIRG THIN ROD HEATER—A single thin glass tube—new idea in heating aquariums.

8 inch, 25-50 watt, each	\$2.00
10 inch, 25-50 watt, each	\$2.25

ADJUSTABLE HEATER—Adjustable type heater that you can safely adjust from 20 watts to 80 watts. Can be used in connection with any thermostat. Outside top adjustment. Each **\$3.75**

OTHER AQUARIUM EQUIPMENT

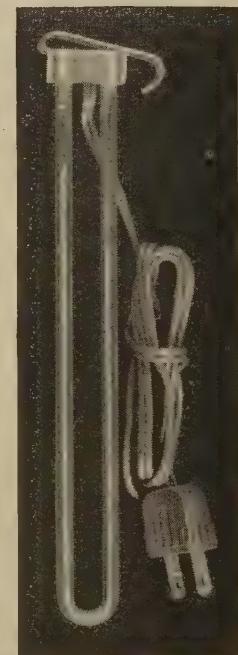
Aeration	Page 14
Filteration	Page 15
Thermostats	Page 17
Accessories	Page 18
Ornaments	Page 12

"OUT OF SIGHT" HEATER

A new heater for the aquarist who does not fancy a heater tube competing with the naturalness of his aquarium. This heater so thin a plant of Valisneria will hide it. Dual glass tube.

10 inch, 25-40-50 watt, each **\$2.25**.

Heaters need a Thermostat to operate automatically.



THERMOSTATS

A thermostat will not heat the water. A thermostat is an electrically controlled automatic switch that will turn the aquarium heater on or off at whatever temperature it is set for, thus maintaining a constant water temperature. When shipped all thermostats are set for 74° F. All are adjustable and come with directions for regulating. Thermostats are economical in that they save electricity, they operate only when the water temperature drops below desired setting. A single thermostat will control several heaters if the aquariums are exposed to approximately the same room temperature.

All Thermostats are fully guaranteed for one year by manufacturer.

No. 1. RENOYLENE THERMOSTAT—Easily adjusted. Due to the unique construction, snap action shut off is obtained, thereby reducing all objectionable radio interference to a minimum. Will accommodate several heaters up to 250 watts. Six foot rubber lead cord with 3 way connection and monel-metal clip holder. 8 inch tube. each \$3.00

(Pilot lights, if desired, 35c extra)

No. 2 SIMPLEX THERMOSTAT—Built-in radio interference eliminator. Will accommodate several heaters up to combined wattage of 300 watts. 4½ foot cord with 3 way connection for pilot light and additional heaters; inside adjustment, aluminum clip holder. 8 inch tube. each \$3.25

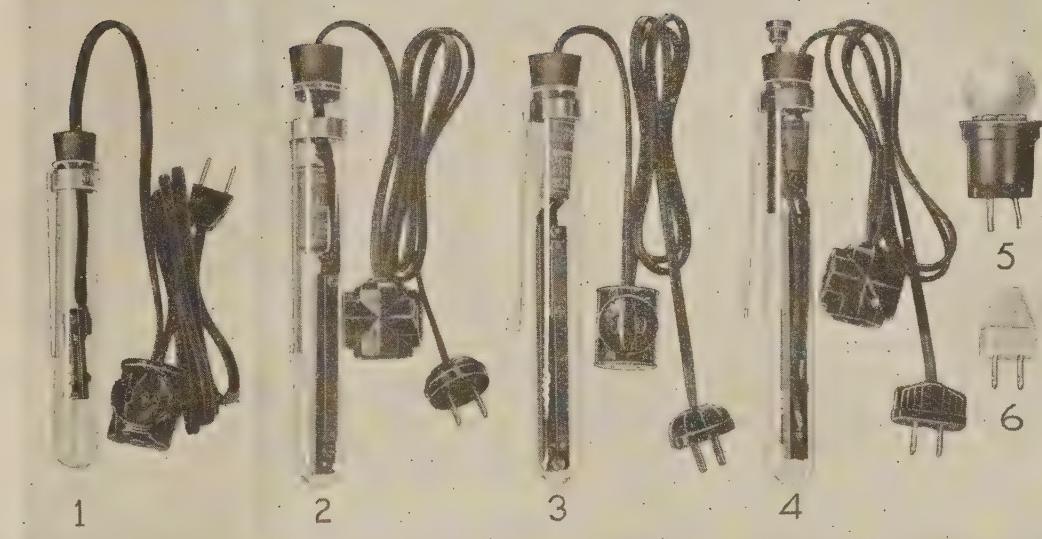
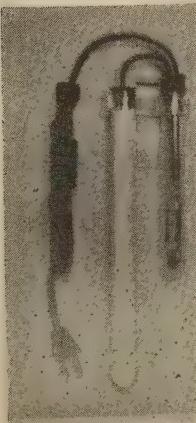
(Pilot light, if desired, 35c extra)

THERMOSTATIC HEATER

A thermostatically controlled heater in a low price range for those aquarists who wish automatic heat control in one tank only. Thermostat and heater are held to side of aquarium by a clear lucite holder; no parts to corrode. Elements are laboratory tested for efficient economical operation.

40 watts \$3.85

75 watts \$3.95



No. 3. DUPLEX THERMOSTAT—Designed for safety. Two separate thermostat units so arranged that either unit will shut off heaters. One unit is set for 75° F, if it fails to turn off heaters the other unit will shut off at 80° F. (Both units are adjustable.) Built in radio condenser to eliminate static, 3 way plug, 4½ foot lead cord, will accommodate combined heaters up to 300 watts. 8 inch tube. each \$6.00

(Pilot light, if desired, 35c extra)

No. 4. OUTSIDE ADJUSTMENT THERMOSTAT—Knob on top permits easy outside adjustment. Will accommodate several heaters up to 500 watts. Built in static eliminator, 3 way plug, 4½ foot lead cord, aluminum clip holder. 8 inch tube. each \$4.95

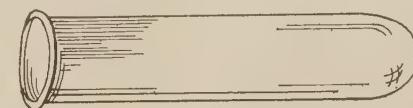
(Pilot light, if desired, 35c extra)

No. 5. PILOT LIGHT—Bulb and plug in socket to plug in thermostat connection. When heater is on the light is on, goes off when thermostat shuts off heater; makes thermostat adjustment simple, an indicator to show when heater is on. each 35c

No. 6. PILOT LIGHT—Long lasting neon-activated light. Complete unit only 1½ inches. Plugs into thermostat connection. each 35c

No. 7. LUCITE CLAMP—To replace worn or broken heater and thermostat clamps. Designed to fit any standard heater or thermostat tube on any standard aquarium frame. each 40c

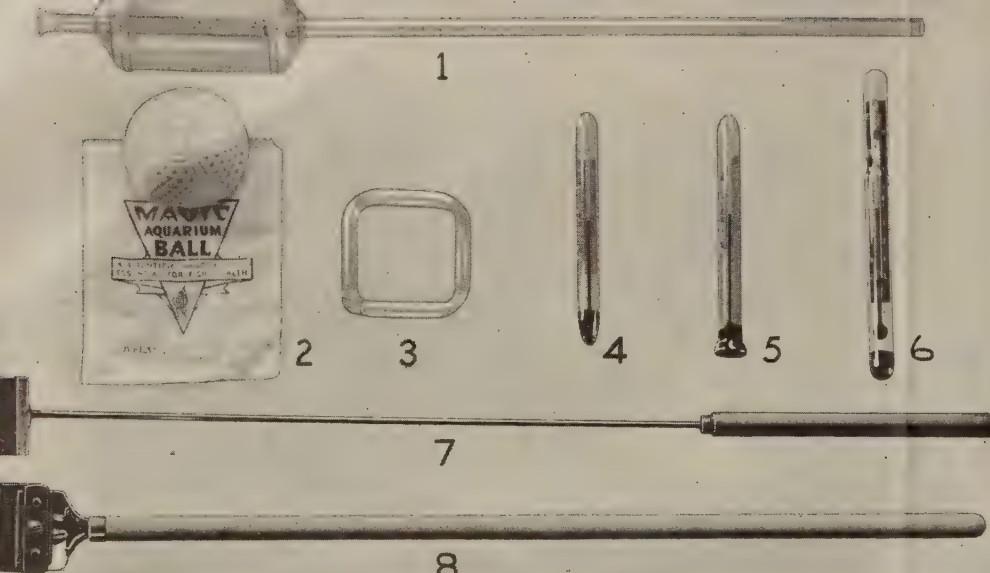
No. 8. METAL CLAMP—Made of guaranteed non-corrosive metal to fit standard tubes, may be bent to fit any aquarium frame. each 25c



No. 9. PYREX TUBES—To replace broken thermostat or heater tubes. These tubes come in 6, 8 and 10 inch lengths to fit most heaters and thermostats. 1"x10"—35c; 1"x8"—25c; ¾"x6"—20c

No. 10. HEATER SEALING COMPOUND—1 oz. can to seal at least two heaters. Easy to use and any that is left may be kept indefinitely for future use. 15c per can

No. 11. HEATING ELEMENTS—To replace worn heating units made in 5 sizes, 10, 20, 30, 40, and 50 watts. Ready to attach to cord. each 35c



3. FEEDING RINGS—Prevents food from spreading over the entire aquarium. When used fish will become so tame that they will rush to the feeding ring when they see you coming with the food.

Square $2\frac{1}{4} \times 2\frac{1}{4}$ Inches each 25c
Rectangular 2×4 Inches each 35c

PLASTIC FEEDING RINGS—Similar to picture but made of unbreakable plastic. Can be used for dry or live food. each 75c

THERMOMETERS—An absolute necessity in any aquarium. Easy to read and guaranteed to be accurate within 2 degrees. As pictured above.

4. SPEED POINT each 35c
5. STANDING each 35c
6. LARGE FLOATING each 35c

AQUARIUM SCRAPERS—For removing algae and cleaning the inside aquarium glass.

7. MONEL METAL—Rust proof 15 inches long each 65c
MONEL METAL—Rust proof 20 inches long each 75c
. WOOD HANDLE SCRAPER—18 inches long each 50c

Ancient Galleon	.....	\$2.00
The Coin Chest	.....	1.00
The Pirate Opened Chest	.....	.65
Plain Chest (not illustrated)	.....	.40
The Jeweled Chest large	.....	.65
small	.....	.60
The large Anchor	.....	.60
small	.....	.20

All Articles are Hand Made—and are guaranteed to remain under water.

Aquarium Necessities

1. PLASTIC DIP TUBE—To clean the refuse off the bottom of your aquarium. Put the large end into the aquarium over the sediment you wish to remove; keep finger over top of other end; remove finger—Presto! the dirt is sucked into the siphon. Replace your finger, remove dip tube, and pour out water and refuse.

18 inches long each \$1.00

24 inches long each \$1.25

GLASS DIP TUBE—12" size 25c; 14" size 35c; 16" size 50c

2. MEDICATED AQUARIUM BALLS—A scientific neutralizer essential for fish health. To reduce and prevent acid conditions in your aquarium.

Price 3 for 25c

FISH NETS—Indispensable for every aquarist and fish fancier. For gold or Tropical fish—Wire handles.

N 1—3 inch Triangular net 15c

N 2—4 inch Triangular net 25c
For gold or tropical fish. All nets with wire handles.

N 3—6 inch Triangular net 35c

N 4—4x5 inch size 35c

N 5—5x8 inch 50c

N 6—7x10 inch for large tanks 75c

GLASSIES—large one inch size marbles in assorted colors. Very decorative.
12 for 25c; 100 for \$1.50

AQUARIUM CEMENT—PE-CO-RA—A product that can't be beat for repairing broken aquariums or constructing new ones. Easy to work with; a black cement ready for immediate use; directions on can.

1 pound can 50c; 5 pound can (SHIPPED EXPRESS COLLECT) \$1.65

LIQUID PLASTIC CEMENT—To repair minor leaks in the aquarium.
1 pound can 25c



READ THESE BOOKS



YOUR AQUARIUM

A New Book

Brief clear directions for keeping Fishes and plants in health—by Wm. T. Innes—Editor of "The Aquarium"—32 pages, with many illustrations of both gold and Tropical Fish.

Only 30c by mail

GOLDFISH AND WATER LILIES—A new book by Wm. T. Innes. **\$5.00**

EXOTIC AQUARIUM FISHES by Wm. T. Innes. Seventh Edition. This new 500 page book with color plates and black and white illustrations is one that everyone interested in aquarium fishes should own. Maps showing world distribution. Pages devoted to Plants, diseases, enemies, scavengers, etc. New Edition **\$6.50** by mail

TROPICAL FISH—by Lucille Mann—a very interesting little book. Chapters on all the important aquatic items. 110 pages. Many illustrations.

Price **50c** by mail

TROPICAL FISH HANDBOOK—by Guenther L. Schott. A thirty-six page book for the beginner. Containing illustration and descriptions of Tropical fish, goldfish, Scavenger, etc.

Price **30c** by mail

GOLDFISH HANDBOOK—A small but very interesting book. About the popular variety of fish.

Price **25c** by mail

CACTI AND SUCCULENTS—and how to grow them. An illustrated booklet with 68 pages packed with all the answers on how to grow your plants successfully. Per copy **30c**.

THE COMPLETE BOOK OF GARDEN MAGIC—All the information you need. Here is a real value—320 pages, size 8x1 1/4 inch—Chuck full of How to Plan—Plant and Take care of your garden. 17 full color illustrations—hundreds of line drawings—only **\$3.00**.



FISH FOODS AND REMEDIES

We take this opportunity to tell you that—our fish foods are tried, tested, and approved. They are made of the things that the aquatic animals like the best, the ingredients that are best for their growth.

Goldfish Food.....	per can 15c	Fish and Plant Tonic.....	4 oz. 25c
	per lb. 50c		per lb. 50c
Tropical Fish Food.....	per can 15c	Fungus Remedy.....	Bottle 25c
	per lb. 75c		
Shrimp Food.....	per can 15c	Aquarium Disinfectant.....	25c
	per lb. \$1.50		
Turtle Food.....	per can 15c	Aquarium Gravel.....	10 lb. bag 50c
Newt Food.....	per can 15c		25 lb bag \$1.00
Ant Eggs—for turtles.....	25c		
Outdoor Fish Food 10 oz. pkg.	50c	Shipped by Express Collect only	
		Bausmans Fish Tonic.....	11 oz. 25c
		Bausmans Remedy Tablets.....	25c
		Aqua Remedy—for "ich".....	25c

PARAREMEDY—An efficient preparation for Mouth and Body Fungus for Gold or Tropical Fish.

PARATONIC—For treatment of "ich" **5 oz. container 15c**

INFUSORIA TABLETS—Just drop in water **per can 25c**

INFUSORIA POWDER—A fine food for Baby Fishes. Directions on can. **per can 25c**

BRINE SHRIMP EGGS—Used in producing live food for Tropical Fish. **50c**

WHITE WORMS (Enchytrae)—per portion **50c**
Large portion **\$1.00**

WHITE WORM FEEDER—Cork-Glass tube **25c**

PLASTIC WHITE WORM FEEDER **25c**

SELF DESIGNING CRYSTAL PAINT—Used to paint on aquarium glass (back and sides) to reduce light intensity to eliminate algae. Easy to apply; self designing; dries in 24 hours. **Price 30c**

WATER TESTING KIT—Simple kits for testing acidity or alkalinity of the water in your aquarium; complete with easy to understand directions for use. **Price 60c**

Collection No. 35

Fish Foods—Remedies
Nets, Etc.

1 lb. goldfish food or 1/2 lb. Tropical Fish food (Specify Which)	1 bottle Pararemedy
	6 Water Purifiers
	1 Dip net
1 box Fish Tonic	1 book "Your Aquarium"

\$1.50

A season's supply — no need now to order three or four times a season—get your needs in one order.



Coral .....	.75c
Neptune .....	.75c
Castle .....	.75c

TERRARIUM AND ORNAMENTAL PLANTS

TERRARIUMS—Specially designed for this use—Stainless Steel—Slate Bottoms—

No. AC—12x16x16 inches.....	\$17.50
Stand to fit.....	10.00
Reflector and glass top.....	7.50

No. AC 20—12x24x16 inches, 20 gal.....	20.00
Stand to fit.....	11.00
Reflector only.....	12.00

All Aquariums listed Page 10 and 11 are suitable containers for Terrariums gardens.

JUNGLE TERRARIUM—(as pictured) is as interesting and beautiful arrangement as we have planted here. Plants were growing about two months when picture was taken. Notice the blooms on the Epidendrum. The Fern Fronds—an easy to grow and attractive collection of Plants—Collection No. T1 consists of seven plants, Fern, Epidendrum, Tillandsia Varieties Suitable for an 8 to 10 gal aquarium. Price \$3.00

Soil for the above collection.....\$1.00

The Plant Collection can be sent Parcel Post—if soil and Terrariums are ordered—entire shipment is then sent Express.

SOIL FOR TERRARIUMS

On account of weight sent only by express.

For the 5 gallon.....	\$.75
For the 10 gallon.....	1.00
For the 15 gallon.....	1.50

Here is your opportunity to study plants from different families under Terrarium conditions in your own home.

RUBBER PLANT SPRAYER

A practical Sprayer for general use. Small 25c; Large 50c;
With long sprayer \$1.00.

HYJONEX PLANT FOOD—

Clean odorless—soluble powder—grows bigger and better House Plants—Excellent even if plants are grown in sand, cinders, or water—Feeding your plant is simple.

per pkg. 25c



Silver Marble Pothos—a beautiful viney plant that likes a shady condition. Excellent for the home admired by all.

each 50c



Collection No. T 2—Consists of an asst. of 15 plants—
suitable for a 20 gal. aquarium. Price \$5.00

Another grouping of Plants for this season—makes a
very beautiful and interesting arrangement—

Pittosporum—Padacaspus—Table Ferns—
Cryptanthus—etc.

No. T 3—For the 5 gallon—5 Plants.....\$1.75

No. 74—For the 10 gallon—10 Plants.....3.00

No. T 5—For the 15 gallon—15 Plants.....4.00

Each Plant a different variety.

Soil for the above
5 gal.—75c; 10 gal.—\$1.00; 15 gal.—\$1.50



You Will

Like The

OLD

COW

HORN

Small Size

50c

Large Size

\$1.00

PARTRIDGE BERRY

In stock only October and November. Excellent for use in Terrariums, either as a single specimen or planted with other plants.

Per portion 50c

Euphorbia Grandicornis

TERRARIUM PLANT COLLECTIONS

BOG TERRARIUM COLLECTION

A fine selection of plants. Each collection includes one of the interesting little Venus Fly Traps; sufficient plants for the size terrarium desired. Five plants, three varieties, for the five gallon terrarium; Ten plants, four varieties, for the ten gallon size. The chance you've always wanted to get some of these insectivorous plants. (Described on Page 21.)

Collection No. BT-50 for Five Gallon only \$1.50.

Collection No. BT-100 for Ten Gallon only \$2.50.

WOODLAND COLLECTION

(Ferns, FT series, described and illustrated, Page 24.)

Five plants, 5 varieties, for the five gallon; ten plants for the ten gallon; fifteen plants for the fifteen gallon, includes

This Collection includes Tree-like Plants in addition to the Ferns—to give a woodland effect:

Collection No. FT-50 for the Five Gallon only \$1.50.

Collection No. FT-100 for the Ten Gallon only \$2.50.

Collection No. FT-150 for Fifteen Gallon only \$3.50.

THE DESERT TERRARIUM COLLECTION

CT. series of Plants illustrated and described, Page 24.

One of the most attractive of the terraria, this can be built to fill your own conception of the desert. A selection of plants, includes some of each type cactus, barrel, bush, and others. Five plants for the five gallon, ten plants for the ten gallon, fifteen plants for the fifteen gallon.

Collection No. CT-50 for Five Gallon only \$2.00.

Collection No. CT-100 for Ten Gallon only \$3.00.

Collection No. CT-150 for Fifteen Gallon only \$5.00.

DECORATIVE TERRARIUM COLLECTION

Plants described Page 24.

Here is the terrarium where you can use your own individuality. Use these outstandingly different plants! Includes one Fittonia, one Moss Fern, one Cryptanthus, one Irish Moss, and the like. Five gallon contains five different plants; ten gallon, ten plants; and fifteen, fifteen plants. Includes Moss, Cork bark.

Collection No. DT-50 for Five Gallon only \$2.50.

Collection No. DT-100 for Ten Gallon only \$3.50.

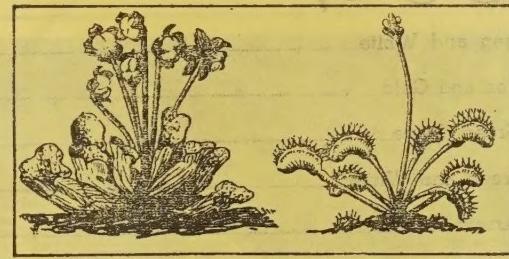
Collection No. DT-150 for Fifteen Gallon only \$5.00.

THE ABOVE COLLECTIONS CAN BE SHIPPED PARCEL POST

The Insectivorous Plants and Other Bog Plants

BT-1 SARRACENIA, Minor—A tall growing plant. One of the insectivorous plants. Captures the insects in long pitcher like leaves and imprisons them. They are gradually then absorbed into the plant itself. 35c each

BT-2 SARRACENIA, Flava—A tall growing species. Is yellowish green, with flowers of bright yellow. Pitchers gain a height of two to two and a half feet. 35c each



BT-7

BT-5

BT-3 SARRACENIA, Purpurea—"Pitcher Plant." Produces pitchers which attain a length of from eight to twelve inches, green colored with purple veins, the flowers are borne on stems from one to two feet high. The petals are a bright purple. 35c each

BT-4 SARRACENIA RUBRA—Much the same, but with a more delicate pitcher, and red blooms. 35c each

BT-5 DIONAEA MUSCIPULA—Its leaves are in pairs, joined or hinged at the lower edge. On the upper edge of the leaves is a row of hairs, closing together like a trap. On the inside of the leaves, toward the center, are three sensitive hairs; if touched by an insect or other object, will cause the leaf to close up, imprisoning the insect or other intruder. For this reason it has been given the name "Venus Fly Trap." Every class should have an opportunity to study this plant. 50c each



BT-6 DROSERA FILIFORMIS

(Sundews)—Interesting little plant, with long slender leaves, which are covered with little glandular hairs. Flowers are purple rose. It grows to a height of one foot, in a wet swampy ground.

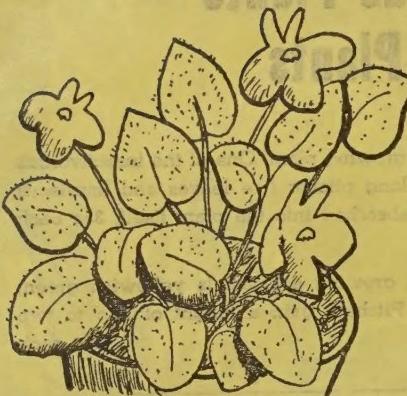
35c each

BT-7 LIVERWORT—Will grow nicely in a terrarium tank. Portion, 35c

BT-8 SPHAGNUM MOSS—Grows well and thrives in the same tank with Pitcher Plants and Sundews. Portion, 25c

These Plants available only—September to March.

AFRICAN VIOLETS



Blue Girl	50c
Blue Boy	50c
Orchid Beauty	50c
White Lady	75c
Pink Beauty	50c
Blushing Maiden	2.00
Viking Deep Purple	\$1.00
Red Head Red	\$2.00
Mentor Boy Purple	\$2.00

Euonymus Green and White	35c
Euonymus Green and Gold	35c
Pittosporum Green leave.	35c
Pittosporum Green and White	50c
Podocarpus Narrow leaves	35c
Boxwood Tree like	35c
Dieffenbachii Picta	\$1.00
Dieffenbachii Gold and Green	2.50

NEW IVIES

FAN IVY—All green—robust and tough	each 35c
------------------------------------	----------

GLACIER—Miniature—Green and White. Variegated—fast growing—and trailing	each 50c
---	----------

Moisture Loving Plants

... for outdoor pools ... for indoor pools ... for window gardens ... for growing in vases with water ... for terrarium. When looking for vines use the Philodendron and Pothos. A group of plants that are adaptable to many uses.

M-1—Syngonium Variegated	35c
M-2—Syngonium Ruth Frazer	50c
M-3—Neptunia	35c
M-4—Philodendron Cordatum	25c
M-5—Pothos aureus	25c
M-7—Silver Marble Pothos	50c
M-8—Red Philodendron	50c



M-3



M-2

M-4

M-5

M-1

COLLECTION M L 50 ONE EACH ABOVE PLANTS

\$1.50

All these plants can be grown in quite deep shade, making them a desirable plant.
They like plenty of water.

FOR BOG PLANTING—TRY AN ASSORTMENT OF VARIETIES OF THE WATER IRIS.

The Succulents are the oddities of the Plant world—from everywhere—Succulents are very similar in appearance and care to Cacti-Aloes, Crassula, Euphorbias, Kalanchoe, Sempervivum, etc., are in this group. Will stand a little more water than Cacti.



Aloes Assorted Varieties.... 4 for \$1.00

10 for 2.00



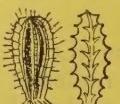
Crasulla Assorted Varieties..... 5 for \$1.00



Sedum Assorted Varieties..... 6 for \$1.00



Haworthia Assorted Varieties..... 4 for \$1.00



Euphorbias Assorted Varieties..... 4 for \$1.00



Echeveria Assorted Varieties..... 6 for \$1.00

All the above plants can be grouped together in one Terrarium
(without glass cover).

IVIES . . .



H-8

H-9

H-10

H-11

H-12

H-8 SPEAR HEAD IVY A miniature leaf—self branching Ivy—compact—easy to grow. 35c each.

H-9 MINIATURE VARIEGATED IVY A small leaf type similar to the large leaved variegated Ivy. 35c each.

H-10 ARBORESCENS IVY (*Conglomerata Erecta*)—an ivy oddity—

grows stiff and erect with small leaves standing out from two sides of the stem. 35c each.

H-11 SMALL LEAVED VARIEGATED IVY (*Elegantissima*) a beautiful Ivy of very slow growth. 25c each.

H-12 ALBANY IVY (Dwarf Ivy) compact—dense growth—Hardy. 35c each.

COLLECTION H-75

One each of the above described Ivy plants for only
\$1.50

IVIES

- H-1 ENGLISH IVY** (*Hedera Helix*). For the border where it is a bit shady. Alternate dark green leaves. **Each 20c.**
- H-2 HEART LEAF IVY** (*Hedera Colchica*). Its leaves form a definite heart pattern. **Each 25c.**
- H-3 SELF BRANCHING IVY** (*Hedera Pittsburgh*). Grows with new branches forming at the base of the leaves. **Each 25c.**
- H-4 VARIEGATED IVY** (*Hedera Helix Variegata*). A blending of green and white not hardy. **Each 25c.**
- H-5 BUNCHLEAF IVY** (*Hedera Conglomerata*). Small bunchy and new. Leaves are curly. **Each 35c.**
- H-6 LEOPARD IVY** (*Hedera Colchica Variegata*). Leaves are deep green with tiny white dotted coloring on the surface of the leaf. **Each 25c.**
- H-7 GRAPE IVY** (*Vitis Rhombifolia*). Leaves are bright green shiny like the leaves of a grape vine. **Each 25c.**

COLLECTION No. H-50

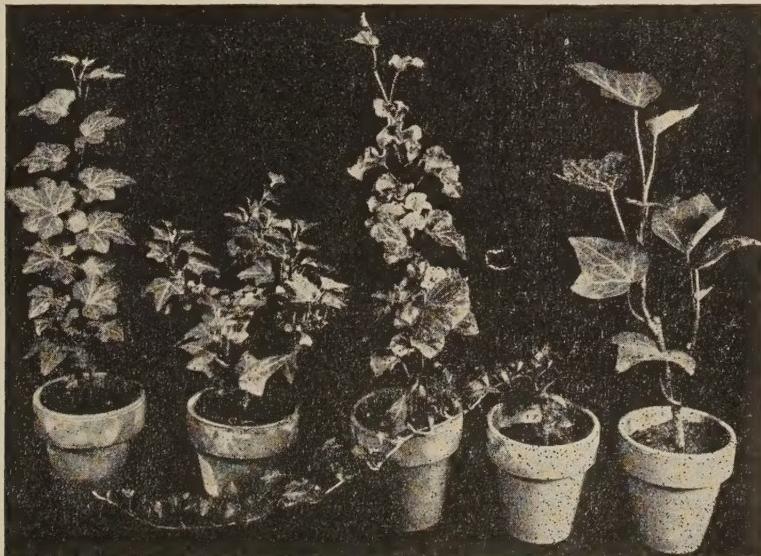
One each of the above described Ivy plants.
For only

\$1.50



Ivy as described above

Back row: H-3, H-4, H-1, H-6; front row: H-5, H-7, H-2



H14

15

16

17

18

MORE NEW IVIES

- H-14 WEBERS CALIFORNIA IVY** A new variety of compact growth leaves vary in size and shape—trailing type. **25c.**
- H-15 MERION BEAUTY** A dainty small leaf variety of self branching habits—grows compact and trails. **25c**
- H-16 CRINKLY IVY** A most unusual Ivy—Round curly crinkly leaves. Grows erect. **75c**
- H-17 TORTUOSA** Another unusual Ivy—Leaves have three distinct points—glossy green color. **25c.**
- H-18 ALGERIAN IVY** Here's an ivy that really will grow for you—giant dark green leaves on long stems (a Jack and the Bean Stock Ivy). **25c.**

COLLECTION H-100

These 5 new varieties

\$1.50

DECORATIVE PLANTS

DT-1—Watermelon Peperomia	ea. .50
DT-2—Irish Moss	ea. .25
DT-3—Tradescantia	ea. .35
DT-4—Pink Veined Fittonia	ea. .35
DT-5—Moss Fern	ea. .35
DT-6—Brazilian Epicia	ea. .50
DT-7—Star Cryptanthus	ea. .35
DT-8—Green Cryptanthus	ea. .25
DT-9—Spider Cryptanthus	ea. .50
DT-10—White & Green Fittonia	ea. .35

Back Row: DT-1, DT-2, DT-3,
DT-4, DT-5, DT-6;
Front Row: DT-7, DT-8,
DT-9, DT-10.



CACTI

CT-1—Cereus Variety—Peruvianus
CT-2—Chamaecereus Sylvestrii
CT-3—Opuntia—Boxing Glove
CT-4—Oloe Nobilis
CT-5—Opuntia Rufida
CT-6—Mammillaria
CT-7—Stapelia
CT-8—Aloe—Gasteria
CT-9—Nyctocereus Serpentinus
CT-10—Haworthia Cymbiformis
CT-11—Haworthia Coarctata
CT-12—Tarchcactus
CT-13—Mammillaria Type
CT-14—Echinocereus
CT-15—Sempervivum
CT-16—Opuntia Crestata
CT-17—Eupharbea Caput Medusae

All CT series Plants priced individually
at

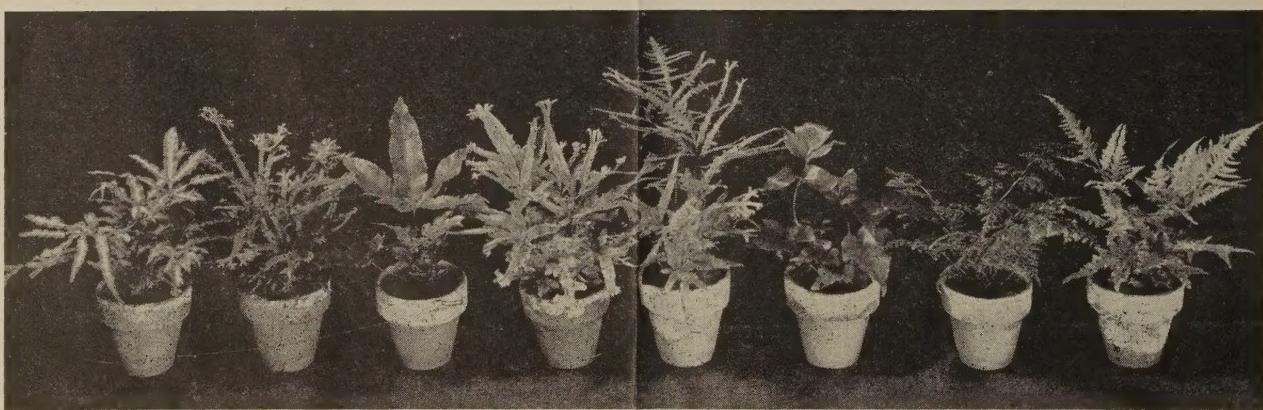
25c each

Back Row—1 to 9.
Front Row—10 to 17.

FERNS

FT-1—Pteris Variegated
FT-2—Pteris Wilsonii
FT-3—Pteris Parkerii
FT-4—Pteris Serrulata
FT-5—Pteris Cristata
FT-6—Crytonium
FT-7—Onychium
FT-8—Pteris Rivertoniana

All FT Series
Plants priced
at 20c



Ferns, described above, from left to right: FT-1, FT-2, FT-3, FT-4, FT-5, FT-6, FT-7, FT-8

It is easy to grow
plants and enjoy a
garden indoors.
Study the lists of the
many and varied va-
rieties we offer, then
select the ones you
like best.